RUEKIVSKIY, G.P. [Rudkivs'kyi, H.F.], kand.biolog.nauk

Blackthorn nectarine. Nauka i zhittia 11 no.10:38-39 0 '61.

(Blackthorn) (Nectarine)

RUDKIVS'KIY, G.P.

Cultivation of fruit trees without transplanting as a way of increasing their drought resistance and winter hardiness. Visnyk AN URSR 28 no.9:53-56 S '57. (MIRA 11:1) (Fruit culture)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445920018-7"

Peach - Ukraine

Creating new frost-resistant varieties of peaches in the Ukraine. Visnyk AN URSR 24 no. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1.	RIDKTYSI KYI, H. P.
2.	### ### ### ### ### ### ### ### ### ##
4.	Ukraine - Peach
7.	Greating new frost-resistant varieties of peaches in the Ukraine. Visnyk AN URSR, 24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

IL'CHRIKO, P.F., inzhener.; RUD'KO, A.A., inzhener.

Device for parquet floors on a woodless base. Transp. stroi.
5 no.10:17-19 D '55. (MIRA 9:3)

(Parquet floors)

RUD'KO, A. K., BORODA HEK, V. YA. AND KULIK, L. M.

"Approximation solution of thermal conductivity equations for laminar-uniform media."

Report presented at the 1st All-Union Conference on Heat- and Mass-Exchange, Minsk, BSSR, 5-9 June 1961.

80799 sov/124-59-9-9799

11.1000 Translation from: Referativnyy zhurnal, Mekhanika, 1959, Nr 9, p 31 (USSR)

AUTHOR:

Rud!ko, A.K.

The Concentration Limits of Flame Propagation Within a Laminar

TITLE:

Two-Phase Mixture

PERIODICAL:

V sb.: Goreniye dvukhfaznykh sistem. Moscow, AS USSR, 1958,

ABSTRACT:

The author divides, for performing a theoretical investigation, the front of flame propagating within a two-phase mixture into three zones: the heating zone, the zone of kinetic combustion \ of the evaporated fuel, and the zone of diffusion-combustion of the fuel droplets. The heat flux, transferred from the more heated zone of diffusion-combustion into the zone of kinetic combustion, causes an increasing in the propagation rate of the flame and a widening of the concentration limits of ignition of the two-phase mixture in comparison with a homogeneous mixture, in which the maximum temperature of the flame is equal to the temperature at the boundary of the kinetic zone and the

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The Concentration Limits of Flame Propagation Within a Laminar Two-Phase Mixture

diffusion zone of the two-phase mixture. The heat flux from the burning vapor phase in the kinetic zone to the fuel droplets causes inhibition of the chemical reaction of the vapor phase combustion. On the basis of these ideas, the author determines theoretically the concentration limits of the ignition of a two-phase mixture of ethyl alcohol and air for different concentration ratios between the liquid and evaporated phases, for different dispersities, pressures, and temperatures. The experimental investigation confirmed the fundamental conclusions of the theory: 1) The upper concentration limit of ignition of the two-phase mixtures for the stoichiometric composition of the vapor phase is 3 - 4 times higher than for a homogeneous mixture, if the mean diameter of droplets is not below 100 / 2) Fine-dispersed mixtures ignite even at zero-concentrations of the fuel within the vapor phase, but for the ignition of coarse-dispersed mixtures, a definite minimum concentration of evaporated fuel is necessary. 3) If the concentration of the evaporated fuel within a two-phase mixture exceeds the upper concentration limit of the homogen mixture, the two-phase mixture does not ignite. 4) At increasing temperature or pressure, the concentration limits of the two-phase mixture somewhat widen.

Card 2/2

L.S. Dmitriyev

sov/123-59-23-99226

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 23, p 375 (USSR)

AUTHOR:

Rudiko, A.K.

TITLE:

Concentration Limits of Flame Propagation in Laminar Two-Phase Mixtures

PERIODICAL: V sb.: Goreniye dvukhfazn. sistem, Moscow, AS USSR, 1958, pp 26 - 49

ABSTRACT:

An example is presented of solving the problem of inflammability limits of laminar drop mixtures. The test results obtained for the drop mixture of ethyl alcohol with air confirmed the basic conclusions of the theory. The inflammability limits of drop mixtures can essentially differ from those of homogeneous gas mixtures. The evaporability of the liquid medium considerably affects the limits; these limits are considerably narrowed down with a cooling of the mixture and a pressure reduction. In consideration of the fact that in practice not laminar but turbulent mixture flows are used. it would be very interesting to continue the investigation in application to the combustion of turbulent drop mixtures. Thirteen figure 5 references.

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sov/1372

Akademiya nauk SSSR. Energeticheskiy institut

Goreniye dvukhfaznykh sistem; sbornik dokladov na obshchemoskovskom seminare po goreniyu pri Energeticheskom institute AN SSSR (Combustion of Two-phase Systems; Collection of Reports of the All-Moscow Seminar on Combustion at the U.S.S.R. Academy of Sciences, Power Institute) Moscow, Izd-vo AN SSSR, 1958. 123 p. 3,200 copies printed.

Resp. Ed.: Khitrin, L.N., Corresponding Member, USSR Academy of Sciences;
Ed. of Publishing House: Meleyev, A.S.; Tech. Ed.: Kashina, P.S.;
Council of the Seminar: Khitrin, L.N., Corresponding Member, USSR Academy of
Sciences (Chairman); Knorre, G.F., Doctor of Technical Sciences, Honored Worker
in Science and Technology, Professor, Deputy Chairman; Shchetnikov, Ye.S.,
Doctor of Technical Sciences, Professor Deputy Chairman); Venichev, A.P.,
Doctor of Technical Sciences; Voyevodskiy, V.V., Corresponding Member, USSR
Academy of Sciences; Golovanov, N.V., Candidate of Chemical Sciences; Zhuk, D.S.,
Candidate of Chemical Sciences; Inozemtsev, A.V., Doctor of Technical Sciences,
Honored Worker in Science and Technology, Professor; Kantorovich, B.V., Doctor
of Technical Sciences; Kogarko, S.M., Doctor of Chemical Sciences; Lebedev, B.N.,

Card 1/5

11(1)

Combustion of Two-phase Systems (Cont.)

sov/1372

3

5

Candidate of Technical Sciences; Nikitin, K.A., Candidate of Technical Sciences; Sokolik, A.S., Doctor of Chemical Sciences; Golovina, Ye.S., Candidate of Technical Sciences (Secretary).

PURPOSE: This collection of articles is intended for scientists working in the field of combustion.

COVERAGE: This is the first issue of proceedings of the Moskovskiy seminar povoprosem goreniya (Moscow seminar on problems of combustion). It is devoted to problems of ignition and combustion processes in two-phase liquid-vapor fuel systems, and to the general characteristics of combustion in a fuel stream. The papers published in this number were presented at the seminar in 1955/55.

TABLE OF CONTENTS:

Préface

Klyachko, L.A. Experimental Study of the Combustion of Fuel Droplets (June 17, 1955)

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Combustion of Two-phase Systems (Cont.)

SOV/1372

The paper discusses the combustion of fuel droplets from the point of view of the diffusion theory of G.A. Varshavskiy [2]. The following characteristics are determined: rate of combustion, radius of the combustion zone, droplet and combustion zone temperatures, temperature areas and partial pressures around the droplet. Two methods were used: 1) combustion of large model droplets in a spherical burner (Fig. 2), 2) combustion of droplets suspended from a filament. Data were calculated for the following fuels: kerosene, benzene, isooctane, and ethyl alcohol. It was determined that the rates of burning for benzene and isooctane are similar. The rate for kerosene is on the average 25 per cent lower than for benzene, and the rate for alcohol is lower than for kerosene. The theoretical and observed temperatures of the droplets show close values, with the observed temperatures lower than the boiling points of fuel for all pressures of air. Photographs of isooctane droplets burning at various air pressures show that the pressure drop results in the flame front receding from the droplet surface and in the change of the flame form to spherical. Natural convection for droplets is negligible. There are 9 figures, 2 tables, and 5 references, 2 of which are Soviet and 3 English.

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CIA-RDP86-00513R001445920018-7"

APPROVED FOR RELEASE: 06/20/2000

Combustion of Two-phase Systems (Cont.)

SOV/1372

19

Tikhomirov, V.G. Fundamental Combustion Characteristics of a Two-phase Fuel-air Mixture (October 14, 1955)

The paper discusses the fundamental combustion characteristics of two-phase fuel-air mixtures in a turbulent flow. A method was devised for the study of a predetermined sector of the flow with a given droplet size, and mixture composition. Flame propagation in such mixtures is due to heat flow from the burning droplets towards nonburning droplets in a medium which does not necessarily contain a combustible fuel-vapor concentration. It was determined that injection of atomized fuel into the air stream adds to the turbulence of this stream. The rate of flame propagation is modified by the turbulence of the flow. The time of combustion of the two-phase mixture, which is the time during which the components of the mixture remain in the combustion zone, has a higher value than that for a homogeneous mixture, especially for low turbulence of the stream. There are 4 figures and 5 references, 4 of which are Soviet and 1 English.

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sov/1372

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Combustion of Two-phase Systems (Cont.)

Rud'ko, A.K. Concentration Limits of Flame Propagation in a Laminar

Two-phase Mixture (November 25, 1955) The author presents the approximate solution for the problem of normal propagation and concentration limits of flame propagation in laminar two-phase fuel-air mixtures. The results are compared with experimental data obtained from the study of concentration limits of flame propagation (with spark ignition) in air-alcohol droplet mixtures with a flow rate below 0.5 m/sec. It was determined that there exists a satisfactory agreement of the experimental data with the theoretical. The two-phase mixtures show an expanded concentration range of the combustible mixture. The deterioration of dispersivity over a certain limit in mixtures with a low content of vaporized fuel results in a nonflammable mixture for any summary concentration of the fuel. The concentration limits of inflammability become narrower during the cooling of the mixture and during a temperature drop. There are 13 figures and 5 references, 4 of which are Soviet and 1 English.

card 5/6

Combustion of Two-phase Systems (Cont.)

SOV/1372

Kantorovich, B.V. Problems in the Theory of Combustion of a Fuel Stream (June 13, 1956)

50

This paper presents theoretical and experimental considerations on the combustion processes occurring in a stream of fuel (pulverized, liquid, and gaseous). The essential differences between the streams of various fuels are indicated in the article. Solid fuels: coal ARSh from the Donets Coal Basin, coal from the Kuznetsk Basin, Chelyabinsk Basin and the Moscow Basin; peat, petroleum coke. Liquid fuels: Diesel oil, ethyl alcohol. The basic equations describing the combustion process are: 1) the stoichiometric equation of mass transfer 3) the equation of state of the gas medium 4) energy equation, and 5) the kinetic equation. Atomized liquid fuels require an additional equation for the evaporization of fuel particles. There are 33 figures, 223 equations, and 40 references, 37 of which are Soviet and 3 English.

AVAILABLE: Library of Congress

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PILYUGIN, G.T.; CHERNYUK, I.N.; RUD'KO, A.P.

Synthetic dyes. Part 52: Styryls from N-aryl quinaldinium salt derivatives. Zhur. org. khim. 1 no.9:1685-1687 S 165. (MIRA 18:12)

1. Chernovitskiy gosudarstvennyy universitet. Submitted August 8, 1964.

rnotoelectric attachment for a spectrograph. Ser.fiz.ta khim. no.1:75-78 159. (Spectrograph) (Spectrograph)			13st sa
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BELYY, M.U.[Bilyi, M.U.]; RUD'KO, B.F. [Rud'ko, B.F.]

Effect of temperature on the luminescence and absorption spectra of solutions of heavy metal salts. Part 1: Study of solutions of lead and thallium salts. Ukr. fiz. zhur. 5 no.6:799-808 N-D 760. (MIRA 14:3)

1. Kiyyvskiy gosudarstvennyy universitet im. T. G. Shevchenko. (Lead salts—Spectra) (Thallium salts—Spectra)

Temperature studies of the luminescence of halide solutions of

heavy metals. Izv.AN SSSR.Ser.fiz. 24 no.5:582-586 My '60. (MIRA 13:5)

1. Kiyevskiy gosudarstvennyy universitet in. T.G. Shevchenko. (Halides--Optical properties)

S/048/61/025/003/043/047 B104/B203

AUTHORS:

Belyy, M. U., Okhrimenko, B. A., and Rud'ko, B. F.

TITLE:

Recombination luminescence of Sn4+ in aqueous solution of

LiCl and HCl at low temperatures

PERIODICAL:

Lavestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 3, 1961, 426-428

TEXT: This paper was read at the 9th Conference on Luminescence (Crystal Phosphors) in Kiyev, June 20-25, 1960. It is known that the optical characteristics of alkali-halide crystal phosphors and certain concentrated solutions have much in common: the absorption spectra are in practical agreement, and the luminescence spectra have also certain correspondences. Hence, the authors conclude that a study of concentrated halide solutions containing heavy metal ions might help to clarify absorption and luminescence mechanisms. It has been found earlier that a red luminescent band could be observed in a solution of $\operatorname{Sn}^{+\tau}$ in LiCl(HCl) on reduction of temperature. The luminescence spectrum of this solution at the temperature of liquid oxygen consists of a blue band $(\lambda_{\text{mac}} = 440 \text{ mm})$

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Recombination luminescence of ...

S/048/61/025/003/043/043 B104/B203

and a red band (Curve 3 of the figure). The present paper deals with the origin of this band. It was found to have three maxima: 585 mm, 605 mm, and 635 mm. Further, it was stated that these two bands were excited in different parts of the absorption spectrum: the blue one at the absorption maximum of 226 mm, and the red one in the region of two distinct maxima at 262 mm and 276 mm. Fig. 1 shows the absorption and luminescence spectra of two solutions. It was found that the absorption spectra of these solutions did not shift on reduction of temperature, only undergoing a slight contraction and elevation of the bands. It was further shown that the absorption spectra of the two solutions had a distinct maximum at 226 mm, and two less distinct maxima at 260 mm and 276 mm. The luminescence spectrum of the solution Sn^{4+} + LiCl(HCl) had only a red band. It is assumed that the longwave absorption maximum of the solution Sn^{4+} + LiCl(HCl) is caused by the transitions So^{4-} Co^{4-} This, however, also clarifies the triplet structure of the red luminescent band of Sn^{4+} . The similar structure of the red luminescent band of Sn^{4+} . The similar structure of the red luminescent band of Sn^{4+} solutions is explained by the same transitions in the Sn^{4+} ion as above,

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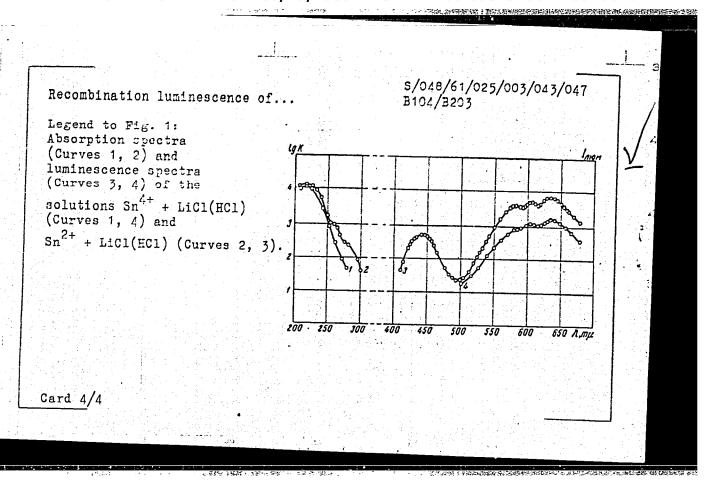
Recombination luminescence of ...

since they also give a red luminescent band of the Sn^{4+} ion. This interpretation is confirmed by the agreement of maxima of the excitation spectrum calculated from formula $\alpha C_0 C_x K_x$ -(Kx Cx!+K,C,)d1. (1) $I_{\text{THOM}} = I_0 \, \overline{K_x C_x + K_0 C_0}$

with the ones found experimentally. Here, $I_{\eta \Theta M}$ and I_{o} are the intensity of luminescence and the intensity of the exciting light, α is the probability of a recombination of an electron and of an Sn^{4+} ion, K_x , K_0 , $C_{\rm x}$, and $C_{\rm o}$ are absorption coefficients and concentrations of the Cl and Sn⁴⁺ ions, and d is the thickness of the absorbing layer. It was shown that $I_{\Pi H M}$ reached a maximum at $K_0/K_x = C_x/C_0^2$. In a subsequent discussion, Ch. B. Lushchik dealt with electron transitions causing absorption in : activated crystals. There are 1 figure and 2 Soviet-bloc references.

A3SOCIATION: Kafedra optiki Kiyevskogo Gos. universiteta im.T. G. Shevchenko (Department of Optics of the Kiyev State University imeni T. G. Shevchenko)

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RUD'KO, F.

Incorporate the search results of everyone into a common plan. Sov. profsoluzy 19 no.24:18-19 D '63. (MIRA 17:1)

1. Predsedatel' zavodskogo komiteta professional'nogo soyuza Kurskogo zavoda traktornykh zapasnykh chastey.

AID P - 4624

Subject

: USSR/Aeronautics - maintenance

Card 1/1

Pub. 135 - 13/23

Author

Rud'ko, G. A., Eng.-Maj.

Title

Technical maintenance of electrical equipment

Periodical:

Vest. vozd. flota, 4, 65-68, Ap 1956

Abstract

The inspection, checking and maintenance of various electrical equipment of aircraft is described in detail.

The article is of informative value.

Institution:

None

Submitted

No date

CIA-RDP86-00513R001445920018-7" APPROVED FOR RELEASE: 06/20/2000

IVANOVA, A.M.; MEKLER, S.Z.; RUD'KO, I.S.

Our experience in the use of polyglutsin. Zdrav.Belor. 4 no.3:50-51 Mr '58. (MIRA 13:7)

1. Iz khirurgicheskoy kliniki Vitebskogo meditsinskogo instituta (direktor I.I. Bogdanovich) i Vitebskoy oblastnoy stantsii perelivaniya krovi (direktor S.Z. Mekler, rukovoditel' raboty - dets. A.Ya. Mitroshenko).

(BLOOD PLASMA SUBSTITUTES)

Mealer, 5.Z.; IVAROVA, A.N.; KOREMENTON, H.H.; RUD-KC, I.S.

Use of TSOLIPK protein hydrolysate in surgical diseases. Zdrav.
Bel. 7 no.8:57-58 Ag '61.

1. Iz Vitebskoy oblastnoy stantsii perelivaniya krovi (dir. - S.Z.Mekler).

(BLOOD PLASKA SUBSTITUTES) (SUREMET)

IVANOVA, A.M.; KERENEVICH, N.N.; MEKLER, S.Z.; RUD'KO, I.S.

Experience in the use of the heterogenic blood substitute BK-8 in surgical practice. Probl. gemat.i perel. krovi 6 no.1:54-56 '61. (MIRA 14:2)

一、人人,但是对他的实际和创新工程和心理的对于全部的企业会的企业中的。上海是和政策的概念

RUDKO, N.; BLAUS, I., red.; CAKSS, J., tekhn. red.

[Vilani; guidebook for Vilani and its environs] Vilani;
turisma celvedis pa Vilaniem un to apkartni. Riga, Latvijas
Valsts izdevnieciba, 1962. 84 p.

(Vilani—Guidebooks)

RUD'KO, P.D.

[Variations in the morphologic structure of farm animals as affected by their care and use] Izmenenie morfologicheskoi struktury sel'sko-khoziaistvennykh zhivotnykh pod vliianiem soderzhaniia i ekspluatatsii. Stalinabad, Tadzhikskii sel'khoz. in-t, 1958. 263 p. (MIRA 14:12) (Morphology (Animals)) (Stock and stockbreeding)

RUD'KO, P.I., GRES M., redaktor; GORODNICHA, A., tekhnicheskiy redaktor.

[Thus the victory was won; account by the director of the Liver Stakhanov low-voltage electric lamps factory] Tak zdobuvalas' peremoha. Rozpovid' dyrektora Livivs'koho stakhanovs'koho zavodu nyz'kovol'tnykh elektrolamp. Liviv, Knizhkovo-zhurnal'ne vyd'vo, 1952. 60 p.

(MIRA 8:2)

(Livov--Electric lamps)

1	RUD'KO, R.P.				
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24,3500

AUTHORS: Horban', I.S., and Rud'ko, S.M.

TITLE: Absorption- and luminescence spectra of HgJ2 crystals

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 6, 1961,

764 - 767

TEXT: Exciton theory in the effective-mass approximation is considered for the case of non-hydrogenic exciton spectra, as well as the following related problems: Transformation of exciton-excitation energy into radiation (due to direct transitions for exciton everly), conditions for transitions without radiation, and the interaction between exciton excitation and lattice defects. The absorption- and luminescence spectra were measured at temperatures of 20, 77 and 100°K. The luminescence was studied on single crystals, whereas the absorption spectra were studied on polycrystalline specimens. A figure shows the obtained spectra. The high values of the absorption coefficients (104 cm⁻¹) and the obtained reproducibility of data for various specimens, show that the absorption spectrum is Card 1/3

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Absorption- and luminescence ...

of crystalline type. The high values of the absorption coefficients show that the corresponding optical transitions are direct allowed transitions. The spectral band of longest wavelength corresponds to transitions to the lowest exciton-state. It is important to calculate the oscillator strength f for this band; it was found that $f = 6 \cdot 10^{-4}$ to 4 \cdot 10-4 (for temperatures between 20 and 100°K). Knowing f, it is possible to determine the dissociation energy of excitons $G_{\rm exc}$; this was found to be 0.14 - 0.17 ev., very close to the values of the spectral distance (0.14 - 0.15 ev) between the maximum of the band and the beginning of the continuous absorption (which increases sharply in the shortwave side of the measured spectrum). The obtained results lead to the conclusion that the continuous absorption is due to interzone transitions. Knowing f, it is also possible to determine the order of magnitude of the diameter of exciton excitation and its reduced effective mass. Another figure shows the energy distribution in the luminescence spectrum, which has 2 bands, corresponding to transitions between exciton states and to luminescence of local centers. The experimentally measured lifetime of excitons and the caluclated one differed by an or-Card 2/3

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Absorption- and luminescence ...

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der of magnitude. (This discrepancy is explained). By extending the above considerations to the ratios of luminescence-band intensities, it is possible to quantitatively determine the efficiency of radiationless transitions, of exciton radiation, and of exciton energy transfer to local centers. The obtained experimental results are proof of the great significance of exciton processes in the transformation of the excitation energy of ${\rm HgJ}_2$ crystals, into lu-

minescence. There are 2 figures and 9 references: 5 Soviet-bloc and 4 non-Soviet-bloc (including 1 translation). The references to the English-language publications read as follows: R.G. Elliot, Phys. Rev., 108, 6, 1957; D.L. Dexter, Phys. Rev., 101, 48, 1956; T. Moss Photocond. in ebm., London, 1952.

ASSOCIATION: Kyyivs'kyy derzhuniversytet im. T.H. Shevchenka (Kyyiv State University im. T.H. Shevchenko)

Card 3/3

S/185/60/005/003/016/020 D274/D303

6.3300

AUTHORS:

Gorban', I.S., Rud'ko, S.M. and Shyshlovs'kyy, O.A.

TITLE:

Wavelength-independence of quantum yield of infrared Cu₂0-luminescence during excitation in the region

of exciton absorption spectra

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 5, no. 3, 1960,

420-422

TEXT: The dependence is studied of the intensity of infrared luminescence of Cu₂O on the wavelength during excitation in the region of the yellow and green hydrogenic series. In literature, there is no common viewpoint regarding the mechanism of excitation-energy transmission to the local impurity-centers which cause the luminestransmission to the local impurity-centers which cause the luminescence. A quantitative study of the Cu₂O absorption-spectrum at liquid-air temperature, showed that the long-wave edge of the eigen-absorption band has a complex structure. In the present study, a lamp of 300 watt was used as a light source. Then the light passed

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Wavelength independence of quantum...

through a monochromator and onto a photomultiplier whose signal was amplified and recorded by electronic potentiometer PSP-1. The measurements were conducted at liquid-air temperature. A figure shows the intensity plotted vs. wavelength (in A). The spectrum was obtained from a specimen 50 μ thick. From the figure it is evident that stronger luminescence corresponds to greater absorp-It was established that the dependence of luminescence on wavelength does not have a structure corresponding to the narrow hydrogenic series of exciton absorption. The investigation shows that the intensity of luminescence does not depend on the nature of the exciting light. The processes involved in the luminescence can be explained by assuming an exciton mechanism of energy transmission to the luminescence centers. Excitation by carriers is likely The lifetime of the carowing to the size of the exciton radius. riers in the conduction zone is very short; this may be the reason for the small quantum-yield of photoconductivity in Cu20 which agrees with the results of earlier investigations. In conclusion, the author considers that a complete solution of the problem would

Card 2/3

Wavelength independence of quantum...

S/185/60/005/003/016/020 D274/D303

require further experimental results. There is 1 figure and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: J. Bloem, Philips Research Reports, 13, no. 2, 167-193, 1958.

ASSOCIATION:

Kyyivs'kyy derzhavnyy universytet im. T.G. Shev-chenka (Kiyev State University im. T.G. Shevchenko)

SUBMITTED:

December 31, 1959

Card 3/3

JP(C) ACCESSION NR: AP3000615	g)/EWT(m)/BDS AFFTC/ASD/ESD-3 8/0181/63/005/005/1368/137	1264
ATTHOR: Corban', I. S.; Rud	l'ko, S. N.	-60
PITIE: Optical properties of	of silicon_carbide crystals	
medica transform tel	a. v. 5, no. 5, 1963, 1300-1312	
ABSTRACT: The authors have proper absorption band thro cial-grade SiC crystals. Tindirect transitions in whi of 0.04, 0.067, and 0.1 ev) violet light, and direct transitions represented by direct transitions are transitions.	investigated the structure of a lough a wide temperature range for an abstructure of the long-wave edge of three types of phonons participally and indirect transitions is about 10 minescence, one originating its authorization of the surface. The excitation of the surface. The excitation further surface. The excitation further surface. The excitation further surface.	ong-wave edge of the rtificial and commer- is determined by ate (with energies was studied in ultragy gap between the out 1 ev. Sicin the body of the regriers within p-n

"In conclusion, the S. A. Dobrolezh, an carbide crystals us	tes that, deep within the citations which are free to il thermodynamic equilibrius authors consider it their d. V. Z. Smushkevich for the ed in the investigation."	absorption band, SiC crystals transfer energy to impurity im is reached in the conducti pleasant duty to thank S. M. ir kindness in furnishing the Orig. art. has: 5 figures. ersitet im. T. G. Shevchenko	centers
*Card 2/2	Wir SOV: OOB	OTHER: 008	

GORBAN', I.S.; GRITSENKO, Yu.I.; RUD'KO, S.N.

Photoluminescence and recombination of current carriers in cuprous oxide crystals. Fiz.tver.tela 3 no.7:2147-2153 Jl '61.

(MIRA 14:8)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko. (Cuprous oxide crystals) (Photoelectricity)

5/051/62/012/005/010/021 E032/E414

Card 1/6

Gorban', I.S., Rud'ko, S.N. AUTHORS:

Absorption and photoluminescence spectra of HgI2

PERIODICAL: Optika i spektroskopiya, v.12, no.5, 1962, 610-615 TITLE: The spectra were measured at 20, 77 and about 100°K using a mirror spectrometer with a plane diffraction grating. A Φ3Y-17 (FEU-17) The photoluminescence The linear dispersion was about 16 A/mm. was measured in single crystals and the absorption spectra were Fig.1 shows the determined for very thin polycrystalline plates. absorption spectrum (3) and the energy distribution in the photoluminescence spectrum (1,2) of the red modification of HgI2 Curve 2' in this figure shows the peak marked 2 on a Fig.2 shows the energy distribution in the photoluminescence spectrum of HgI2 (I - 20°K, curves a and for single crystals (obtained from the vapour phase) and refer at 20°K. to different portions of the original material; curve G represents the luminescence of a crystal grown from solution;

GORHAN*, I.S., RUD'KO, S.N.

Absorption and photoluminescence spectra of HgI2 orystals. Opt.1 spektr. 12 no.5:610-615 My '62. (MIRA 15:5)

(Mercury Iodide orystals-Spectra)

GOHBAN', I.S. [Horban', I.S.]; RUD'KO, S.N. [Rud'ko, S.M.]; SHISHLOVSKIY, A.A. [Shyshlovs'kyi, O.A.]

Independence of the quantum yield of Cu₂0 infrared luminescence on the length of the wave upon excitation in the region of the exciton structure of the absorption spectrum. Ukr.f.z.zhur. 5 no.3:420-423 My-Je '60. (MIRA 13:9)

1. Kiyevskiy gosudarstvennyy universtet im.T.G. Shevchenko. (Spectrum, Infrared) (Copper oxide--Spectra)

S/048/61/025/001/001/031 B029/B067

9.4160 (4150 1137,1395)

AUTHORS: Gorban', I. S., Rud'ko, S. N., and Shishlovskiy, A. A.

TITLE: Luminescence of semiconducting crystals on excitation in the

region of the discrete structure of the absorption spectrum

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 1, 1961, 6-12

TEXT: According to the authors, the intensity of recently observed shortwave luminescence bands of Cu₂O (Ref. 5) is largely dependent on the production process and the heat treatment of the specimens. Fig. 1 shows luminescence spectra of Cu₂O crystals with different resistivities. The spectra were taken at 20°K and 77°K. The luminescence of Cu₂O crystals is mainly caused by impurity centers. Radiation 1 is caused by copper vacancies, whereas luminescence 2 and 3 are caused by oxygen vacancies. A temperature change strongly reduces the luminescence intensity of the bands in the short-wave region of the spectrum. In Fig. 2, A₁ schematically

Card 1/5

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001445920018-7

89235

Luminescence of semiconducting crystals

S/048/61/025/001/001/031 B029/B067

illustrates the ground states of defects of the type of copper vacancies. Levels A₂ and A₃ belong to the centers of the type of oxygen vacancies; m₁ and m₂ are the excited states of the centers. The mechanism of excitation-energy transfer to impurity centers on illumination of the crystal with frequencies of its own bands is essential for the explanation of luminescence and photoconductivity. For this purpose, the authors analyze some experimental data. Fig. 3 illustrates quantitative measurements of the absorption spectrum at liquid-air temperature, i.e., of absorption spectrum (1), excitation spectra of Cu₂O luminescence for radiation 1(2),

as well as for bands 2 and 3(3). This can be explained by two mechanisms: 1) excitation energy is transferred to impurity centers by carriers and excitons with the same efficiency. 2) Impurity centers are excited by excitons which are formed directly during light absorption or through conduction bands by interaction of carriers of opposite sign. According to the authors, the second mechanism is more probable. In this connection, reference is made to N. A. Tolstoy's ideas. If $\mathbb{W}_{i} \neq \mathbb{W}_{i}$, the following

Card 2/5

Luminescence of semiconducting crystals

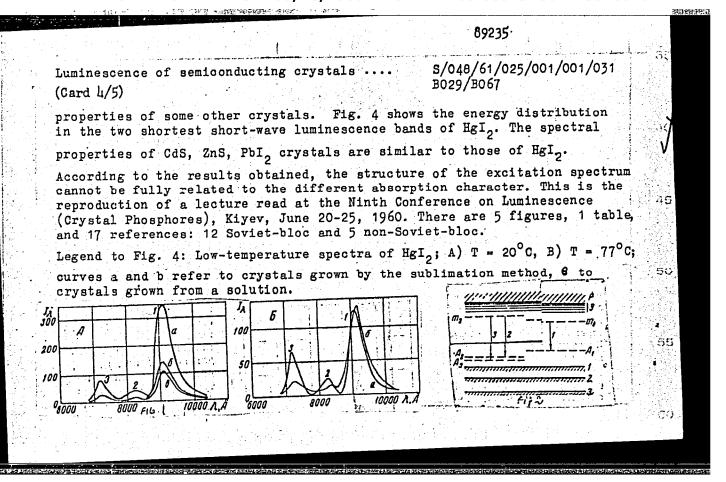
S/048/61/025/001/001/031 B029/B067

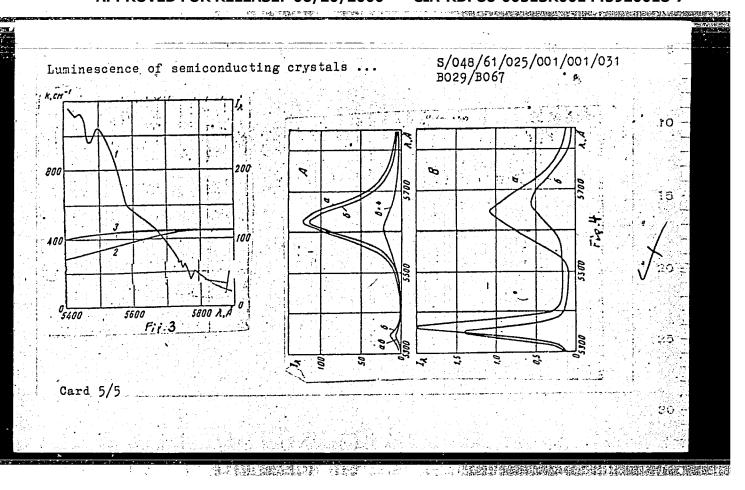
relation holds for the temperature dependence of the exciton lifetime:

 $\beta+W_1N_1+(W_2+W_3)N-(W_1-W_{1\Phi})C_1e^{-\epsilon_1/kT}-(W_2-W_{2\Phi})C_2e^{-\epsilon_2/kT}-(W_3-W_3\Phi)C_3e^{-\epsilon_3/kT}$ For the exciton yield of the i-th band $\eta_i=W_i(N_i-C_ie^{-\epsilon_1/kT})\tau$ holds with i=1,2,3; N_i denotes the concentration of lattice defects per unit volume; N_i is the number of occupied levels; W_i are the probabilities of collision between excitons and vacancies; W_i are the collision probabilities of an exciton with occupied acceptors; β is the decay probability of an exciton without collision with a defect. Furthermore, $N_1=C_1e^{-\epsilon_1/kT}$, $N_2=C_2e^{-\epsilon_3/kT}$, $N_3=C_3e^{-\epsilon_3/kT}$. The conclusions drawn by the authors agree with the experimental results obtained and help to explain some hitherto inexplicable details. The authors then describe luminescence and absorption Card 3/5

"APPROVED FOR RELEASE: 06/20/2000 CIA-

CIA-RDP86-00513R001445920018-7





GORBAN', I.S.; RUD'KO, S.N.

Optical properties of silicon carbide crystals. Fiz.tver.tela 5 no.5:1368-1372 My '63. (MIRA 16:6)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko. (Silicon carbide crystals—Optical properties)

GORBAN', I.S. [Horban', I.S.]; RUD'KO, S.N. [Rud'ko, S.M.]

Absorption spectra and photoluminescence of HgI crystals.

Ukr.fiz.zhur. 6 no.6:764-767 N-D '61. (MIRA 16:5)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko. (Mercury iodide crystals—Spectra) (Luminescence)

GORBAN', I.S. [Horban', I.S.]; GRITSENKO, Yu.I. [Hrytsenko, IU.I.]; RUD'KO, S.N. [Rud'ko, S.M.]

Optical properties of impurity centers and the photoconductivity of copper oxide. Ukr. fiz. zhur. 8 no.1:96-101 Ja '63. (MIRA 16:5)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko. (Color centers-Optical properties) (Copper oxide-Spectra) (Photoconductivity)

L 23640-66 EWT(d)/ENP(h)/EMP(1)
ACC NR. AP6009560 (A)

SOURCE CODE: UR/0413/66/000/005/0138/0138

AUTHOR: Rudin, A. D.

35

ORG: none

TITLE: A vibration conveyer. Class 81, No. 179665

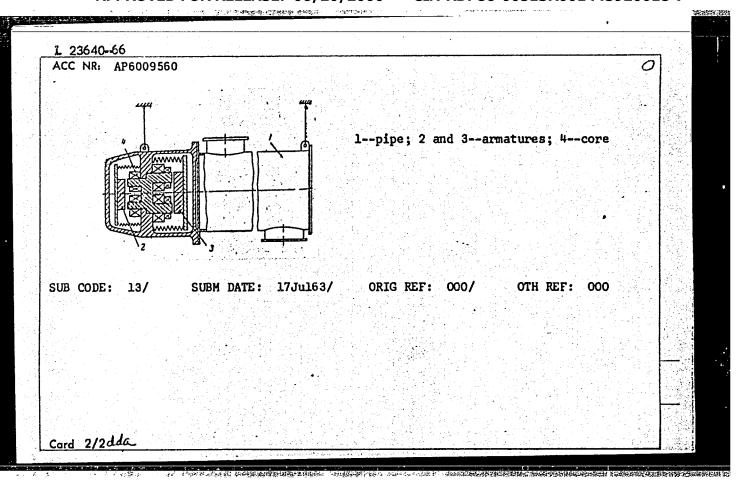
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 138

TOPIC TAGS: conveying equipment, mechanical vibration, electric vibrator, magnetic circuit

ABSTRACT: This Author's Certificate introduces a vibration conveyer with a working element in the form of a pipe which is oscillated by an electromagnetic vibrator consisting of two armatures and a core with ac and dc windings. The effectiveness of the conveyer operation is improved by mounting the core of the vibrator on the end of the pipe along its axis and connecting the armatures to form a system of two magnetic circuits. One of these magnetic circuits, equipped with dc windings, has a larger cross section and a greater number of ampere-turns on its ac coils.

UDC: 621.867-868

Card 1/2



RUD'KC, V. F.

"Bone Flastics of the Lower Jaw." Sub 23 Jan 51, Moscow Medical Stomatological Inst, Ministry of Health RSFSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 480, 9 May 55.

RUDIKO, V. F.

Skin Grafting

Rapid method of formation and transplantation of Filatov's flap. Stomatologiia no. 1, 1952.

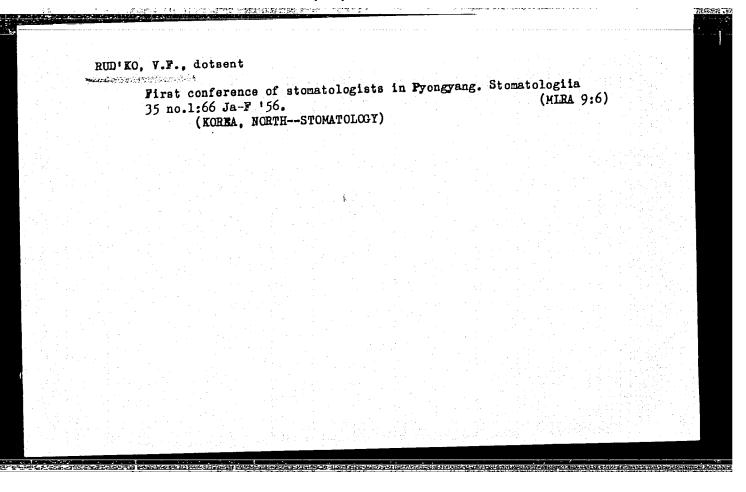
Monthly List of Pus ian Accessions, Library of Congress, May 1952, Unclassified.

Methods used in nasal plastic surgery. Stomatologiia no.6:32-35 '53.

(MLRA 7:1)

1. Iz kafedry khirurgicheskoy stomatologii (zavednyushchiy - professor A, I, Yevdokimov) Moskovskogo meditsinskogo stomatologicheskogo instituta (direktor - dotsent G.N.Beletskiy).

(Nose-Surgery) (Surgery, Plastic)



RUD'KO, V.F., dotsent; KASPAROVA, N.N., kandidat meditsinskikh nauk

Surgical treatment of ankylosis of the temporomandibular joint. Stomatologiia 35 no.5:24-27 S-0 '56 (MLRA 10:4)

1. Iz kafedry khirurgicheskoy stomatologii (zav.-prof. A.I. Yevdokomov) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir.-dotsent G.N. Beletskiy) (TEMPOROMANDIBULAR JOINT--ANKYLOSIS)

RUD'EO, V.F., dotsent

Parodontitis; pyorrhea alveolaris. Zdorov'e 3 no.4:18-19 Ap '57 (MIRA 10:5)

(GUMS-DISASES)

RUD'KO, V.F., dotsent

A symposium on plastic surgery and the congress of Gzechoslovakian stomatologists. Stomatologiia 36 no.4:60-63 Jl-Ag '57. (MIRA 10:11) (SURGERY, PLASTIC)

RUD'KO, V.F., dots.

Dental care for children in certain West European countries; based on material from the Brussels conference of a group of experts from the World Health Organization, February 3-7, 1958. Stomatologiia 37 no.4:25-28 Jl-Ag '58 (MIRA 11:9) (PEDCDONTIA)

RUD'KO, V.F., dotsent

Planned improvement in oral hygiene in children is the basic task of stomatology. Stomatologia 38 nc.5:3-9 S-0 '59. (MIRA 13:3)

1. Glavnyy stomatolog Ministerstva zdravookhraneniya SSSR. (MOUTH--CARE AND HYGIENE)

RUD'KO, V.F.; SOKOLOV, M.M. [deceased]; KOSTYLEVA, S.G.

High speed turbine drill; preliminary report. Trudy NIIEKHAI no.5:285-287 '61. (MIRA 15:8)

1. Iz Moskovskogo meditsinskogo stomatologicheskogo instituta i Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov. (DENTAL INSTRUMENTS AND APPARATUS)

BELETSKIY, G.N. (Moskva); RUD'KO, V.F.

Urgent problems in the development of stomatological care. Sov. zdrav. 20 no.10:28-33 '61. (MIRA 14:9)

1. Direktor Moskovskogo meditsinskogo stomatologicheskogo instituta (for Beletskiy). 2. Glavnyy stomatolog Ministerstva zdravookhraneniya SSSR (for Rud'ko).

(STOMATOLOGY)

RUD'KO, V.F.

Notes on stomatology in Great Britain. No.3: Scientific research in the field of stomatology. Stomatologiia 41 no.5:86-89 S-0 '62. (MIRA 16:4)

(GREAT BRITAIN -- STOMATOLOGY)

RUD'KO, V.F., dotsent

Principles and method of the study of the incidence of stomatological diseases. Stomatologiia 43 no.1:9-17 Ja-F'64 (MIRA 17:4)

1. Moskovskiy meditsinskiy stomatologicheskiy institut.

USSR/Ferm Animals. - Horses

Q-2

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49959

Author : Zhedenov V.N., Rud'ko Ye.F.

: Odcese Fern Institute. Inst

: The Shapes and Types of Lungs in Horses Title

Orig Pub : Tr. Odc:sk. ..-kh. in-tr, 1955, 7, 19-26

Abstract: On the basis of investigations performed on 32 adult horses, the weights of the besic left and right lung actions are presented (esymetric coefficient 1.2). Heinly, ettention is drawn to apical outgrowth and branches (proc. apicalis). Breed on their development, the author distinguisher 3 types chiefly of symmetrical and several types of asymmetrical lungr. The cuthor establishes a connection between these types and the constitutional types of dry (riding) and damp

(transport) horses.

: 1/1 Card

11

MUCHNIK, V.M.; RUD'KO, Yu.S.

Cooling and freezing processes of water drops. Trudy
UKrNICMI no.31:133-134 '62.

(MIRA 16:11)

MUCHNIK, V.M.; RUD'KO, Yu.S.

Formation of hoarfrost on frozen drops of water in an electrical field. Izv. AN SSSR. Ser.geofiz. no.10:1450-1452 0 162.

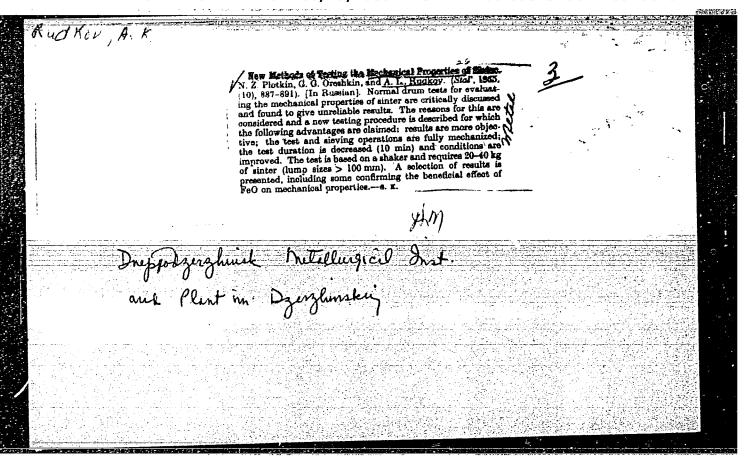
(MIRA 16:2)

1. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

(Prost)

Obtaining a fluxed sinter from decopy present concentrates. Stel 21 no.9:764-787 S *64.

1. Zavod in. Decreninghage.



SOV/137-57-10-18604

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 19 (USSR)

AUTHOR: Rudkov, A.K.

TITLE: Experiences in the Operation of the Sintering Mill at the im.

Dzerzhinskiy Plant (Opyt raboty aglomeratsionnoy fabriki

zavoda im. Dzerzhinskogo)

PERIODICAL: Tr. Nauchn. -tekhn. o-va chernoy metallurgii, 1956, Vol 8,

pp 206-212

ABSTRACT The sintering plant produces 2 types of sinter: Bessemer (B)

containing $P \le 0.025\%$ and $Mn \le 0.5\%$, and open-hearth (O), with 3-4.5% Mn. A portion of the ore usually goes to the sintering machine without blending. Ore in the 12-0 mesh fraction is sintered after screening. A large number of proportioning tables at the receiving bins makes it possible to blend the ore at the sintering machine to a single class so that fluctuation of Fe therein is $\pm 1\%$. A description is provided of the sintering-process flow, and it is shown that the quality of the sinter is determined by holding to an optimum flowsheet for the given mix. The average hourly output in 1953 of the belts (with a sintering area of 50 m²) was 74.1 t for B and 67.5 t for O.

Card 1/1

130-58-4-3/20

AUTHOR: Rudkov, A.K.

Sinter Production by the Gas Sintering Method (Proizvodstvo

aglomerata metodom gazovoy aglomeratsii) TITLE:

Metallurg, 1958, Nr 4, pp 3 - 5 (USSR). The author describes a sintering method in which the PERIODICAL:

mix, containing less carbon than normal, is charged onto the strand and ignited in the normal way. Immediately after ABSTRACT: leaving the ignition hood, the top of the bed is quenched to a short depth with water sprays and a mixture of blast-furnace gas and air is sucked through the bed. The mixture is applied through a series of hoods but does not ignite until it reaches the hot layer, ignition in the first hood not taking place because of the previous quenching. A sintering machine at the imeni Dzerzhinskogo (imeni Dzerzhinskiy Works) zavod has the imeni Dzerzhinskogo (imeni Dzerzhinskiy Works) zavod has been converted to the new method (Figure 1), being fitted with eleven hoods covering 44 m of the grate area and has produced eleven hoods covering 44 m of the grate area and has produced a 200 tone of sinter in test mine. The mix contained 57 und or 1 200 tons of sinter in test runs. The mix contained 57.44% ore with 59.44% Fe and 11.71% SiO₂, 6.50% flue dust with 40.26% Fe and 12.85% SiO2, 6.50% limestone with 2.8% SiO2, 27.44% returns and 2.12% coke breeze; the average carbon and moisture contents

Card 1/2

Sinter Production by the Gas Sintering Method

130-58-4-3/20

of the mix were 1.6 - 2.5 and 5 - 5.5%, respectively. Bed height was 185 - 200 mm and the suction (1 000 mm water gauge) was provided by a fan ated at 3 500 m²/min. Air and gas pressures were 300 mm ater gauge, the gas:air ratio being 1:1.15. An insintered top layer 7 - 15 mm deep was produced, which the author considers could be avoided by an ignition temperature higher than the 1 000 C used. The sinter produced was more reducible but a little weaker than normal. The rates of production achieved (45 tons/hour average, 60 best) could be improved, the author considers, by better design of hoods so as to avoid the ignition of the mixture in them which occasionally occurred during the test and by greater experience. Except for fuel, the costs of the new and conventional the solid fuel consumption must be set against the increased gas consumption for individual values of solid:gas fuel cost ratios. There are 2 figures and 1 table.

ASSOCIATION: imeni Dzerzhinskogo zavod (imeni Dzerzhinskiy Works)

Card 2/2

AUTHOR: Rudkov, A.K. SOV/130-58-12-4/21

TITLE:

Method for a Rapid Replacement of the Fan Rotor of a 50 m² Sintering Machine (Metod skorostnoy zameny rotora eksgaustera aglomashiny 50 m²)

PERIODICAL: Metallurg, 1958, Nr 12, pp 10 - 11 (USSR)

ABSTRACT: The sinter strands at the sinter plant of the works im. Dzerzhinskogo (im. Dzerzhinskiy) are provided with centrifugal, type D-3500-13 fans rated at 3500 m3/min. under inlet conditions (1000 mm suction, 150°C temp.) at 1500 rpm. For rapid replacement of the rotor special tackle (Fig 1) has been developed which enables the operation to be carried out in under 4-5 hours by eleven men with one supervisor. The author gives the order in which the operations are carried out and illustrates

(Fig 2) the removal of the upper fan main. There are 2 figures.

ASSOCIATION: Zavod im. Dzerzhinsko (Works imeni Dzerzhinskiy)

Card 1/1

NUV/100-59-3-2/32

AUTHORS:

Oreshkin, G.G., Plotkin, N.Z. and Rudkov, A.K.

TITIE:

Continuous Calcining of Limestone for Adding to Sinter

Mixes (Nepreryvnyy obzhig izvestnyaka dlya aglomeratsionnoy shikhty)

PERIODICAL:

Stal', 1959, Nr 3, pp 19? - 203 (USSR)

ABSTRACT:

In 1957, the authors developed at the Dzerzhinskiy Works a scheme for the calcination of limestone directly on the sinter plant by installing a "round calcining machine" OPR (first letters of the authors' names) in the mix preparation section. The design of the machine is shown in Figure 1. The machine consists of a rotating wind box in the form of a cut-off cone, with the diameter of the large base carrying the sintering grate from 4 - 8 m with a corresponding working surface area from

10 to 40 m². The ignition of the mix for calcining consisting of crushed limestone 0-10 mm (oversize of crushed lime after screening-off -3 mm fraction for adding to sinter mixes), crushed coke breeze (about 10%) and moisture (3-7%), is done by a row of burners made from tubes 20 mm in diameter with flattened outlets (4-5 mm) fired with cokecven gas. The calcined lime is transferred to a feeding

Cardl/4

SOV/133-59-3-2/32

Continuous Calcining of Limestone for Adding to Sinter Mixes

table from which it is added to the sinter mix. In order that hot lime (with a temperature of the individual pieces of up to 1 200 - 1 300 C) boul not fall directly onto the conveyor belt, the diameter of the feeding table was increased to 3 m and fitted with two spirals and two knives. The first knife transfers limestone cuto the conveyor carrying the sinter mix while the second knife transfers the hot lime on top of the limestone layer. In order to prevent the formation of dust at the discharge of the calcined lime approximately 3/4 of the calcination machine was enclosed into a casing so that the dust is sucked into the calcining layer. Similarly, the place of discharge onto the conveyor level was cased and the casing connected to the exhaust tube. The dust formed during calcining is trapped in a dust catcher (bag) from which it is passed to the feeding table carrying calcined limestone. The position of the calcining machine in the mix preparation department is shown in Figure 2. The influence of suction on the calcining process was investigated on a laboratoryscale apparatus and the results obtained are given in Figure 4. Similar machines with a working area of

Card2/4

SUV/13/-59-3-2/32 Continuous Calcining of Limestone for Adding to Sinter

10 and 15 m^2 are being designed for other sinter plants. An improved design of the machine with upward suction is shown in Figure 5. It is planned that at the Makeyevsk Works the calcined lime will be discharged directly into the mixing drum and at the "Krivorozhstal'" (Krivoy Rog) and "Zaporozhstal'" Works directly onto the conveyor belt already carrying the remaining components of the sinter mix. On the basis of prolonged experience in the operation of the calcining machine the following conclusions are drawn: a) it is advantageous to calcine limestone of the size 0-10 mm (not larger than 15 mm) from oversize after screening -3 mm fraction for the addition to the sinter mix in the raw state; b) the limestone mix should contain 8-10% of carbon and 3-4% of moisture; the size distribution of fuel should be the same as for sintering; c) it is advantageous to carry out the calcining process up to 70-80% of decarbonisation; d) the ignition of the mix can be done with coke-oven gas with a consumption of not less than 40 kcal/ton of the charge; e) for mixing the charge before calcining a worm mixer should be used; charging onto the grate is done with a swinging spout; f) the through-Card3/4 put of the machine of 4 m diameter and 200 mm H20 suction

Continuous Calcining of Limestone for Adding to Sinter

is up to 150 t/day and can be considerably increased by increasing the capacity of the fan from 30 000 to 40 000 m³/h and suction of up to 500 mm H₂O; g) as the calcined lime is added hot (500 - 750 °C) its influence on the intensification of the sintering process is higher than that of cold stone into the introduction of the calcination of lime-increased by 6% (by 10% if compared with the operation without calcined lime), in addition, the dust content of the lime handling places considerably decreased; i) the cost of the machine of 10 m² working surface area is about 150 000 roubles and is recovered in a few months of operation. There are 5 figures and 3 Soviet references.

ASSOCIATIONS:

Zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works) and Dneprodzerzhinskiy vecherniy metallurgicheskiy institut (Dneprodzerzhinsky Erzzing Metallurgical Institute)

Card 4/4

AUTHOR: Rudkov, A.K., Engineer SOV/133-59-3-5/32

TITIE: Operation of Battery Cyclones at Sinter Plants

(Exsploratatsiya batareynykh tsiklonov aglomashin)

PERIODICAL: Stal', 1959, Nr 3, pp 209 - 210 (USSR)

ABSTRACT: At the sinter plant of the Dzerzhinskiy Works each sinter strand (50 m² surface area) is fitted with an exhaust fan D-3500-13 of a capacity of 3 500 m³ at a suction of 1 000 mm H₂O and a temperature of the waste gases of 150 °C. In order to prevent a rapid wear of the fan rotor, the operation of various types of cyclones was investigated. The general lay-out of the exhaust system is shown in Figure 1 and the designs of the tested elements of the cyclone in Figure 2. It was found that the design g (Figure 2) was most suitable, as the rotor operated for a period of over 3 years during which 2.2 mil. tons of

ASSOCIATION: Zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works) Card 1/1

sinter was produced. There are 3 figures.

28.1000,18.5000

75571 SOV/130-59-10-3/20

AUTHOR:

Rudkov, A. K. (Chief of Sinter Plant)

TITLE:

Automatic Dust Withdrawal from the Dustcatching Bags

of Gas Mains and Multicyclones

. The same of the

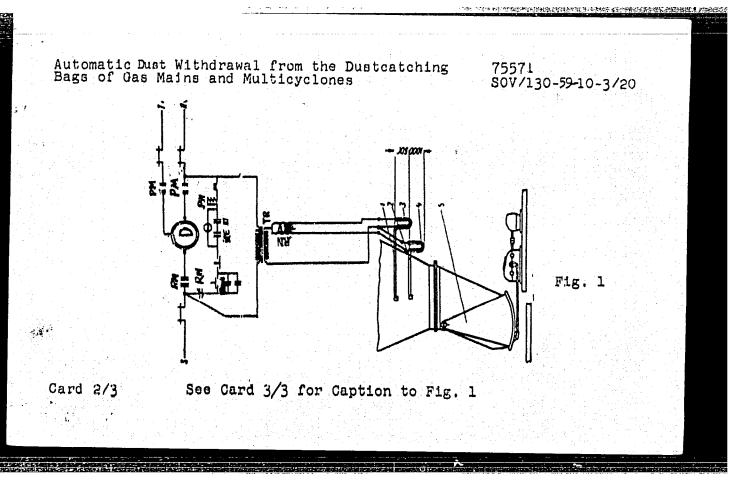
PERIODICAL:

Metallurg, 1959, Nr 10, pp 6-7 (USSR)

ABSTRACT:

The special feature of the new design (see Fig. (1), attached) is dust acting as an automatic vacuum gate. The dust is supplied by a pendulum feeder driven by an electric motor. Experimental automatic vacuum gates introduced at zavod imeni Dzerzhinskogo(Plant imeni Dzerzhinskiy) produce satisfactory results. Advantages: (1) elimination of dust escape from gas main and multicyclone; (2) increase in productivity of sinter machine; (3) decrease in exhauster power consumption; machine; (3) decrease in exhauster power consumption; (4) reduction in servicing personnel; (5) cut cost of repairs; (6) improved working conditions. There is 1 figure.

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Automatic Dust Withdrawal from the Dustcatching Bags of Gas Mains and Multicyclones

75571 SOV/130-5,-10-3/20

Fig.1. Automatic vacuum gate: (1) top pipe; (2) bottom pipe; (3) top manometer; (4) bottom manometer; (5) pendulum feeder R, S, T - A. C. phases; RN - coil and relay terminals of bottom pipe; RV - coil and relay terminals of top pipe; TR - transformer; D - electric motor; KE and KT - blocking terminals of feeder with exhauster and dust removal transporter; PM - coil and terminals of magnetic starter.

ASSOCIATION:

Plant imeni Dzerzhinskiy (Zavod imeni Dzerzhinskogo)

Card 3/3

RUCKOV, A.K.; FIOTKIN, N.Z.

Work practices at the Nc.2 Sintering department of the Dneprodzerzhinsk Plant. Stal' 24 no.12:1064-1069 D'64.

(MIRA 18:2)

1. Metallurgicheskiy zavod im. Dzerzhinskogo i Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz im. M.I. Arsenicheva.

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445920018-7"

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Improving the efficiency of the TFB ofess) locamotive. Thei.
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RUDKOV, G.V.; BELYAYEV, A.G.

Our method for reconditioning the jacket of M753 diesel engine cylinders. Elek. i tepl.tiaga 7 no.ll:17 N '63. (MIRA 17:2)

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	locomotives.	the performance of heatin Elek.i tepl. tiaga 5 no.10	(MTRA 14:10)	
	1. Nachal'nik	k reklamatsionogo byuro zav	roda im. F.E.Dzerznina	Mogoy
	g. Murom.	(Diesel locomotives) (Boilers)		
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l. Nachal'nik reklamatsionnogo hyuro Muromskogo zavoda im. F. E. Dzerzhinskogo. (Diesel enginesMaintenance and repair)	RUDKOV,	Recommendations on the maintenance of the diesel engine of TGF1 diesel locomotives. Elek.i tepl.tiaga 6 no.1:14-16 Ja '62. (MIRA 15:1)
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		(Diesel enginesMaintenance and repair)

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Basic trends in the development of medical equipment in stomatology.

(MIRA 15:12)

Med.prom. 16 no.6:3-7 Jl '62.

1. Glavnyy stomatolog Ministerstva zdravookhraneniya SSSR.

(STOMATOLOGY—EQUIPMENT AND SUPPLIES)

RUDKOVA, S.I.; ROZHNOVA, R.T.; FILIMONOVA, A.Ya.

Food poisoning. Zhur. mikrobiol. epid. i immun. 31 no. 5:119 My 160.

(MIRA 13:10)

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(FOOD POISONING)

SOKOLOVÁ, T.A.; FUDKOVSKAYA, G.D.

Cyclic polymerization. Part 1: N-Methyldimethacrylamide. Vysokom.

soed. 3 no.5:706-710 My '61.

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(Methacrylamide)

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SSSR.

(Methacrylamide)

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Sokolova, T.A., and Rudkovskaya, G.D.

AUTHORS:

Synthesis of N-substituted methacrylamides. VI. N-me-

TITLE:

thyl dimethacrylamide

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 7, 1961,

TEXT: N-methyl dimethacrylamide has been synthesized by two different methods. The investigation was carried out in the absence of any information on the compound. N-methyl dimethacrylamide (MDMA) any information on the compound. N-methyl dimethacrylamide (MDMA) was prepared by heating N-methyl methacrylamide with methacrylic acid anhydride (MAA), and by heating methylamine hydrochloride with acid anhydride (MAA), and by heating methylamine hydrochloride quenacid anhydride (MAA). On heating equimolar quentities of CH2NH2HCl with MAC in a solvent, the main product is a titles of CH2NH2HCl with MAC in a solvent, the main product has been decomposed at a solvent with the latter method with the latter method has been decomposed at a solvent with the latter method with the la monoacylated derivative. Hitherto, the latter method has been desmonoacytated derivative. In therto, the latter method has been described for obtaining only monoacrylated amines. Preparation of MDMA cribed for obtaining only monoacrylated amines. Preparation of MDMA is then described. About 30 % yield of MDMA was obtained. This was

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